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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE AN 2 7 2004

Applicant(s): Matthew R. Arnold, et al.

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Examiner: Kuo-Liang J.

OFFICIAL

Serial No: 09/703,527

Art Unit: 2122

Docket: YOR920000357US1 (13734)

Filed: November 1, 2000

Dated: January 29, 2004

For: SYSTEM AND METHOD FOR CHARACTERIZING PROGRAM BEHAVIOR BY SAMPLING AT SELECTED PROGRAM POINTS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

AMENDMENT

Sir:

Responsive to the Office Action of October 29, 2003, Applicants respectfully request the Examiner to reconsider the application in view of the following amendments and remarks.

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks begin on page 9 of this paper.

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office on the date shown below.

Dated: January 29, 2004

Steven Fischman

IN THE SPECIFICATION:

Please amend the specification on page 7, lines 14-25 as follows:

A

--A preferred embodiment implements a timer based approach. Preferably, associated with shouldTakePrologueYieldPoint and shouldTakeLoopYieldPoint is the reserved bit Atrigger bit@ "trigger bit" which is initially set to 0. Using standard operating system signal mechanisms, an interrupt is arranged to occur at periodic time intervals. An interrupt handler is coded to catch the timer interrupt. When the handler catches the interrupt, it sets the trigger bit to be 1. Yield points check the value of the trigger bit, and when it is 1 the yield point is taken, a sample is collected, and the trigger bit is reset to 0. In this implementation, the pseudo code for prologue yield points is as follows: --

Please amend the specification on page 9, lines 6-15 as follows:



Please amend the specification on page 114 lines 5-13 as follows:



--In addition to incrementing a method counter, more complex samples may be taken to aid method inlining. For example, the techniques described in commonly-owned, co-pending U.S. Patent Application No. 09/703,530 (YOR9200000357, D#13732) entitled METHOD FOR CHARACTERIZING PROGRAM EXECUTION BY PERIODIC CALL-STACK INSPECTION, the contents and disclosure of which is incorporated by reference as if fully set forth herein, are potential embodiments for takePrologueSample, and may be used for ascertaining call-context of executing program methods. --